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L11	62	9 and (automatic$6 with render$4)	US-PGPUB; USPAT	OR	ON	2005/07/13 11:13
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S45	35	(("5283887").PN.) or (("5406557").PN.) or (("5418908").PN.) or (("5781901").PN.) or (("5838252").PN.) or (("5844969").PN.) or (("5903723").PN.) or (("5905777").PN.) or (("5937162").PN.) or (("5958006").PN.) or (("5964833").PN.) or (("20020191206").PN.) or (("20020194307").PN.) or (("20020191211").PN.) or (("5974446").PN.) or (("5978837").PN.) or (("5995597").PN.) or (("6023700").PN.) or (("6035104").PN.) or (("6073165").PN.) or (("6160631").PN.) or (("6182059").PN.) or (("6219694").PN.) or (("6256666").PN.) or (("6275848").PN.) or (("20030067624").PN.) or (("20020191210").PN.) or (("20020194404").PN.) or (("6360252").PN.) or (("5436960").PN.) or (("20030223089").PN.) or (("20020075509").PN.) or (("20020135797").PN.) or (("20020129097").PN.) or (("20020129118").PN.) or (("2332764").PN.) or (("2001043048").PN.) or (("2001159938").PN.)	US-PGPUB; USPAT	OR	ON	2005/07/12 14:53
S54	5093	(709/203).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/07/12 15:07

S55	3439	(709/223).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/07/12 15:07
S56	1248	render$4 same print$4 same file	US-PGPUB; USPAT	OR	ON	2005/07/13 11:12
S59	118	S58 and (select$4 with render$4)	US-PGPUB; USPAT	OR	ON	2005/07/13 11:12
S60	34	S59 and (automatic$6 with render$4)	US-PGPUB; USPAT	OR	ON	2005/07/13 11:13
S61	9	identif$5 with (application or program) with generat$4 with (digital adj3 document)	US-PGPUB; USPAT	OR	ON	2005/07/13 11:13
S66	22	synchroniz$7 with (render$4 adj4 commands)	US-PGPUB; USPAT	OR	ON	2005/07/13 11:13
S69	48	(("(5740455") or ("5724514") or ("5664208") or ("5428718") or ("6040838") or ("6226407") or ("6226407") or ("5581686") or ("5613058") or ("5634019") or ("5692157") or ("5754175") or ("5801701") or ("5905884") or ("6202100") or ("6847384") or ("6057858") or ("6072598") or ("5668996") or ("6097380") or ("6029200") or ("6020972") or ("5485568") or ("5486686") or ("5875448") or ("5937144") or ("6201611") or ("6326983") or ("6369909") or ("6434578") or ("6626958") or ("6631498") or ("6726104") or ("6765688") or ("6775678") or ("6886130") or ("6892251") or ("5777621") or ("5995756") or ("5945986") or ("6317761") or ("6466967") or ("6023525") or ("6232976") or ("5933256") or ("6209010") or ("6487568") or ("6599325") or ("5598482") or ("5649082).pn.")). PN.	US-PGPUB; USPAT	OR	OFF	2005/07/12 15:57
S70	518	(715/526).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/07/12 15:06
S71	5510	(709/203).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/07/12 15:07
S72	3838	(709/223).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/07/12 15:07
S73	34	S69 and ((generat$4 or creat$4) with document)	US-PGPUB; USPAT	OR	ON	2005/07/12 15:57
S74	7	S73 and (render$4 with document with format)	US-PGPUB; USPAT	OR	ON	2005/07/12 17:22

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1 Principled design of the modern Web architecture
Roy T. Fielding, Richard N. Taylor
May 2002 **ACM Transactions on Internet Technology (TOIT)**, Volume 2 Issue 2

Full text available: pdf(335.47 KB) Additional Information: full citation, abstract, references, citings, index terms

The World Wide Web has succeeded in large part because its software architecture has been designed to meet the needs of an Internet-scale distributed hypermedia application. The modern Web architecture emphasizes scalability of component interactions, generality of interfaces, independent deployment of components, and intermediary components to reduce interaction latency, enforce security, and encapsulate legacy systems. In this article we introduce the Representational State Transfer (REST) arc ...

Keywords: Network-based applications, REST, World Wide Web

2 PHIGS+ functional description revision
Andries van Dam
July 1988 **ACM SIGGRAPH Computer Graphics**, Volume 22 Issue 3

Full text available: pdf(4.57 MB) Additional Information: full citation, abstract, citings, index terms

This is a set of proposed extensions to the proposed PHIGS graphics standard (dpANS X3.144-198x. DIS 9592) to cover the areas of lighting, shading and advanced primitives which have thus far not been addressed by that standard. This document is organized to promote its eventual integration with the existing PHIGS documentation and is therefore not tutorial in nature. It assumes that the reader is familiar with PHIGS. with rendering and with curves and surfaces. This specification has been made a ...

3 Model-driven development of Web applications: the AutoWeb system
Piero Fraternali, Paolo Paolini
October 2000 **ACM Transactions on Information Systems (TOIS)**, Volume 18 Issue 4

Full text available: pdf(6.94 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes a methodology for the development of WWW applications and a tool environment specifically tailored for the methodology. The methodology and the development environment are based upon models and techniques already used in the

hypermedia, information systems, and software engineering fields, adapted and blended in an original mix. The foundation of the proposal is the conceptual design of WWW applications, using HDM-lite, a notation for the specification of structure, nav ...

Keywords: HTML, WWW, application, development, intranet, modeling

4 Coordination models, languages and applications: Coordination middleware for XML-centric applications

Paolo Ciancarini, Robert Tolksdorf, Franco Zambonelli

March 2002 **Proceedings of the 2002 ACM symposium on Applied computing**

Full text available: pdf(904.80 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper focuses on coordination middleware for distributed applications based on active documents and XML technologies. It introduces the main concepts underlying active documents and XML Then, the paper goes into details about the problem of defining a suitable middleware architecture to effectively support coordination activities in applications including active documents and mobile agents, by specifically focusing on the role played by XML technologies in that context. According to a simpl ...

5 Software engineering and the Internet: a roadmap

Luca Bompani, Paolo Ciancarini, Fabio Vitali

May 2000 **Proceedings of the Conference on The Future of Software Engineering**

Full text available: pdf(1.73 MB) Additional Information: full citation, references, citings, index terms

6 XML: not a silver bullet, but a great pipe wrench

Tommie Usdin, Tony Graham

September 1998 **StandardView**, Volume 6 Issue 3

Full text available: pdf(86.79 KB) Additional Information: full citation, citings, index terms, review

7 MPEG-4: an object-based multimedia coding standard supporting mobile applications

Atul Puri, Alexandros Eleftheriadis

June 1998 **Mobile Networks and Applications**, Volume 3 Issue 1

Full text available: pdf(747.80 KB) Additional Information: full citation, abstract, references, citings, index terms, review

The ISO MPEG committee, after successful completion of the MPEG-1 and the MPEG-2 standards is currently working on MPEG-4, the third MPEG standard. Originally, MPEG-4 was conceived to be a standard for coding of limited complexity audio-visual scenes at very low bit-rates; however, in July 1994, its scope was expanded to include coding of scenes as a collection of individual audio-visual objects and enabling a range of advanced functionalities not supported by other standards. One of the ke ...

8 Principled design of the modern Web architecture

Roy T. Fielding, Richard N. Taylor

June 2000 **Proceedings of the 22nd international conference on Software engineering**

Full text available: pdf(217.34 KB) Additional Information: full citation, abstract, references, citings, index terms

The World Wide Web has succeeded in large part because its software architecture has been designed to meet the needs of an Internet-scale distributed hypermedia system. The

modern Web architecture emphasizes scalability of component interactions, generality of interfaces, independent deployment of components, and intermediary components to reduce interaction latency, enforce security, and encapsulate legacy systems. In this paper, we introduce the Representational State Tra ...

Keywords: WWW, software architectural style, software architecture

9 Tools and approaches for developing data-intensive Web applications: a survey



Piero Fraternali
September 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 3

Full text available: pdf(524.80 KB) Additional Information: full citation, abstract, references, citings, index terms

The exponential growth and capillar diffusion of the Web are nurturing a novel generation of applications, characterized by a direct business-to-customer relationship. The development of such applications is a hybrid between traditional IS development and Hypermedia authoring, and challenges the existing tools and approaches for software production. This paper investigates the current situation of Web development tools, both in the commercial and research fields, by identifying and characte ...

Keywords: HTML, Intranet, WWW, application, development

10 Fast detection of communication patterns in distributed executions



Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

11 A fine-grained access control system for XML documents



Ernesto Damiani, Sabrina De Capitani di Vimercati, Stefano Paraboschi, Pierangela Samarati
May 2002 **ACM Transactions on Information and System Security (TISSEC)**, Volume 5 Issue 2

Full text available: pdf(330.60 KB) Additional Information: full citation, abstract, references, citings, index terms

Web-based applications greatly increase information availability and ease of access, which is optimal for public information. The distribution and sharing of information via the Web that must be accessed in a selective way, such as electronic commerce transactions, require the definition and enforcement of security controls, ensuring that information will be accessible only to authorized entities. Different approaches have been proposed that address the problem of protecting information in a Web ...

Keywords: Access control, World Wide Web, XML documents, authorizations specification and enforcement

12 Data integrity: Web application security assessment by fault injection and behavior monitoring



Yao-Wen Huang, Shih-Kun Huang, Tsung-Po Lin, Chung-Hung Tsai
May 2003 **Proceedings of the 12th international conference on World Wide Web**

Full text available: pdf(4.53 MB) Additional Information: full citation, abstract, references, citings, index terms

As a large and complex application platform, the World Wide Web is capable of delivering a broad range of sophisticated applications. However, many Web applications go through rapid development phases with extremely short turnaround time, making it difficult to eliminate vulnerabilities. Here we analyze the design of Web application security assessment mechanisms in order to identify poor coding practices that render Web applications vulnerable to attacks such as SQL injection and cross-site scr ...

Keywords: black-box testing, complete crawling, fault injection, security assessment, web application testing

13 Modeling and rendering: SSIML: designing structure and application integration of 3D scenes

Arnd Vitzthum, Andreas Pleuß
March 2005 **Proceedings of the tenth international conference on 3D Web technology**

Full text available: pdf(389.21 KB) Additional Information: full citation, abstract, references, index terms

The integration of 3D scenes into complex software systems can be a great challenge. The results of different developer groups working on a project with different tools have to be composed into a single software product. This is an expensive and error prone task because of the lack of specialized concepts and tools. A visual and tool supported modelling language called SSIML (Scene Structure and Integration Modelling Language) is introduced allowing to design 3D scene integration. Since SSIML is ...

Keywords: 3D applications, 3D software design, EAI, SAI, SSIML, UML extension, X3D, code generation, interactive applications, interdisciplinary development, scene graph, scene integration, tool support

14 The London Travel Demonstrator

Anthony Steed, Emmanuel Frécon, Anneli Avatare, Duncan Pemberton, Gareth Smith
December 1999 **Proceedings of the ACM symposium on Virtual reality software and technology**

Full text available: pdf(3.02 MB) Additional Information: full citation, abstract, references, citings, index terms

Travel can be a stressful experience and it is an activity that is difficult to prepare for in advance. Although maps, routes and landmarks can be memorised, travellers do not get much sense of the spatial layout of the destination and can easily get confused when they arrive. There is little doubt that virtual environments techniques can assist in such situations, by, for example, providing walkthroughs of virtual cityscapes to effect route learning.The London Travel Demonstrato ...

Keywords: collaborative virtual environments, large-model support, real-time rendering, travel applications

15 Designing hypertext support for computational applications

Michael Bieber, Charles Kacmar
August 1995 **Communications of the ACM**, Volume 38 Issue 8

Full text available: pdf(320.73 KB) Additional Information: full citation, references, citings, index terms

16 Theory and medels II: Supervised learning for the legacy document conversion
Boris Chidlovskii, Jérôme Fuselier
October 2004 **Proceedings of the 2004 ACM symposium on Document engineering**

Full text available: pdf(180.71 KB) Additional Information: full citation, abstract, references, index terms

We consider the problem of document conversion from the rendering-oriented HTML markup into a semantic-oriented XML annotation defined by user-specific DTDs or XML Schema descriptions. We represent both source and target documents as rooted ordered trees so the conversion can be achieved by applying a set of tree transformations. We apply the supervised learning framework to the conversion task according to which the tree transformations are learned from a set of training examples. %Because o ...

Keywords: XML markup, legacy document conversion, machine learning

17 Managing multimedia in documents: Multimedia document engineering in MCF
Peter King, Jocelyne Nanard, Marc Nanard
November 2002 **Proceedings of the 2002 ACM symposium on Document engineering**

Full text available: pdf(403.10 KB) Additional Information: full citation, abstract, references, index terms

This article demonstrates how several of the general-purpose principles which have proved successful in the area of large-scale software development and maintenance are relevant to multimedia design. We present the Media Construction Formalism, MCF, whose high level concepts encompass the principles of abstraction, modularity, encapsulation, and reuse, which facilitate formal specification during the initial steps of multimedia document engineering. MCF has been implemented as a user-friendly de ...

Keywords: abstraction, design, engineering, modularity encapsulation, multimedia, reuse, role, scenario

18 Pen computing: a technology overview and a vision
André Meyer
July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3

Full text available: pdf(5.14 MB) Additional Information: full citation, abstract, citings, index terms

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions.Starting with a short historic ...

19 Machine interpretation of CAD data for manufacturing applications
Qiang Ji, Michael M. Marefat
September 1997 **ACM Computing Surveys (CSUR)**, Volume 29 Issue 3

Full text available: pdf(1.90 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Machine interpretation of the shape of a component for CAD databases is an important problem in CAD/CAM, computer vision, and intelligent manufacturing. It can be used in CAD/CAM for evaluation of designs, in computer vision for machine recognition and machine inspection of objects, and in intelligent manufacturing for automating and integrating the link between design and manufacturing. This topic has been an active area of research

since the late '70s, and a significant number of computat ...

Keywords: artificial intelligence, automated process planning, computer-aided design, computer-integrated manufacturing, feature recognition, flexible automation

20 Web engineering with semantic annotation: Improving portlet interoperability through deep annotation

Oscar Díaz, Jon Iturrioz, Arantza Irastorza

May 2005 **Proceedings of the 14th international conference on World Wide Web**

Full text available: pdf(476.49 KB) Additional Information: full citation, abstract, references, index terms

Portlets (i.e. multi-step, user-facing applications to be syndicated within a portal) are currently supported by most portal frameworks. However, there is not yet a definitive answer to portlet interoperation whereby data flows smoothly from one portlet to a neighbouring one. Both data-based and API-based approaches exhibit some drawbacks in either the limitation of the sharing scope or the standardization effort required. We argue that these limitations can be overcome by using deep annotation ...

Keywords: data-flow, deep-annotation, event, portal ontology, portlet interoperability

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